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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,183	12/04/2003	Richard W. Kauppila	KAU-109	7306
75	90 02/28/2006		EXAM	INER
John R. Benefiel		GREENHUT, CHARLES N		
Suite 100 B 280 Daines Stre	et		ART UNIT	PAPER NUMBER
Birmingham, M	11 48009		3652	
			DATE MAILED: 02/28/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/728,183	KAUPPILA ET AL.				
		Examiner	Art Unit				
		Charles N. Greenhut	3652				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>06 Ja</u>	nuary 2006.					
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Dispositi	ion of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) 1-19 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	ion Papers						
9)□	The specification is objected to by the Examine	r.					
•	The drawing(s) filed on <u>06 January 2006</u> is/are:		I to by the Examiner.				
,—	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority (under 35 U.S.C. § 119	•					
12)	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Applicati	ion No				
	3. Copies of the certified copies of the prior	•	ed in this National Stage				
	application from the International Bureau						
* \$	See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmen	• •	»П	(070,440)				
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		Patent Application (PTO-152)				

l. Claim Rejections - 35 USC § 112

The following is a quotation from the relevant paragraphs of 35 U.S.C. 112:

(2) The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 11-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

1.1. With respect to claim 11, it is not clear what "thereof" refers to in line 17.

II. Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claim(s) 1, 2, 4-7, 9-13, and 16-19 is/are rejected under 35 U.S.C. 102(b) as being anticipated

by GUNNARSSON (US 6,216,846).

1.1. With respect to claim 1, GUNNARSSON discloses spaced apart lugs having an

overhung edge (4) attached along conveyor loops (1), a speed up belt (11), a series of

flipper arms (16a-c) pivotally mounted to a conveyor (15) adjacent a respective lug

(Fig. 1), a stationary cam ramp (23) causing the flipper arms to pivot into engagement

position, the speed-up belt driving the article past the overhung edge to cause tipping.

Since the flipper arms in GUNNARSSON are disposed to move synchronously with

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the conveyer to engage the articles carried by the conveyor, it is inherent that they are

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mounted to the conveyor.

1.2. With respect to claim 2, GUNNARSSON additionally discloses lugs having a

trailing upper edge located on the rear of a bottom part of a lug, a speed up belt

driving the article to engage the trailing edge, the article driven past the trailing edge

to cause tipping.

1.3. With respect to claim 4, GUNNARSSON additionally discloses two conveyor loops.

1.4. With respect to claim 5, GUNNARSSON additionally discloses two speed-up belts.

1.5. With respect to claim 6, GUNNARSSON additionally discloses the flipper arm

having a first and second segment extending at an angle to each other, a free end of

one downwardly extending segment pivotally mounted on a conveyor loop chain link

pin.

1.6. With respect to claim 7, GUNNARSSON additionally discloses a knee engaging a

cam to pivot the flipper arm (Col. 4).

1.7. With respect to claim 9, GUNNARSSON additionally discloses the cam ramp

adjustably mounted.

1.8. With respect to claim 10, GUNNARSSON additionally discloses let-down elements

pivotally mounted on the conveyor loop located adjacent a flipper arm (second leg of

16c), a second cam (22) for lowering the let-down element and a turnover element

engaging the rear of an article on edge.

1.9. With respect to claim 11, GUNNARSSON discloses lugs projecting above the

conveyor, each article between the lugs, pivotally mounting a flipper are below each

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lug, driving each article into abutment with a next ahead lug, and a cam ramp to cause

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upward movement of the flipper.

1.10. With respect to claim 12, GUNNARSSON additionally discloses a trailing upper

edge on each lug spaced above the article, raising the article to an edge position with

the flipper and advancing the on-edge article against the lug trailing edge by the

speed-up belt to tip the article.

1.11. With respect to claim 13, GUNNARSSON additionally discloses two conveyor

loops having lugs, and a pair of drive belts interposed between the conveyor loops.

1.12. With respect to claim 16, GUNNARSSON discloses lugs mounted to the chain

loop, flipper elements pivotally mounted to the chain loop, and a cam surface.

1.13. With respect to claim 17, GUNNARSSON additionally discloses a speed up drive.

1.14. With respect to claim 18, GUNNARSSON additionally discloses lugs having a

trailing overhung edge and the speed-up drive driving the bottom of the article into

engagement with the overhung edge to cause tipping.

1.15. With respect to claim 19, GUNNARSSON additionally discloses a let down

element pivotally mounted on the conveyor adjacent a flipper, a cam segment

pivoting the let down element to engage the article, and a cam segment engaging the

article to allow a controlled descent.

III. Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole

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would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 1. Claim(s) 3 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over GUNNARSSON (US 6,216,846) in view of MOORE (US 5,482,140).
 - 1.1. With respect to claim 3, GUNNARSSON fails to teach a rear facing curved shape creating a trailing edge to guide raising the article. MOORE teaches a rear facing curved shape creating a trailing edge to guide raising the article. It would have been obvious to one of ordinary skill in the art to modify GUNNARSSON with the curved surface of MOORE in order to enable the lug to better follow the path of the board as it rotates.
- 2. Claim(s) 8 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over GUNNARSSON in view of KUMAGAMI (US 4,822,967).
 - 2.1. With respect to claim 8, GUNNARSSON fails to teach an arcuate guide slot formed in the flipper and a guide pin extending from the chain link into the guide slot. KUMAGAMI teaches an arcuate guide slot formed in the flipper and a guide pin extending from the chain link into the guide slot. It would have been obvious to one of ordinary skill in the art to modify GUNNARSSON with the pin and guide slot of KUMAGAMI in order to synchronize the conveyor conveying the articles with the flippers.
- 3. Claim(s) 14-15 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over GUNNARSSON in view of RAYBON (US 5,605,216).
 - 3.1. With respect to claim 14, GUNNARSSON additionally teaches engaging an upper rear portion of each article as it is tipping. GUNNARSSON fails to teach controllably

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restraining lowering the article to slow the rate of dropping motion. RAYBON teaches controllably restraining lowering the article to slow the rate of dropping motion. It would have been obvious to one of ordinary skill in the art to modify GUNNARSSON with the restraining mechanism of RAYBON in order to prevent damage to the article.

3.2. With respect to claim 15, GUNNARSSON additionally teaches the let down element pivotally mounted to the conveyor loop and located adjacent a flipper arm. GUNNARSSON fails to teach the second cam ramp used to control descent of the article. RAYBON teaches a cam ramp used to control descent of the article. It would have been obvious to one of ordinary skill in the art to modify GUNNARSSON with the cam ramp of RAYBON in order to control descent of the article, thereby preventing damage to the article.

IV. Response to Applicant's Arguments

Applicant's arguments entered 1/6/06 have been fully considered but are not persuasive.

1. Applicant argues with respect to claims 1-19 that the lifting devices in GUNNARSSON are not pivoted up by a stationary cam ramp. GUNNARSSON, however, shows the lifting devices (16) pivoted up by a stationary cam ramp (23) (Col. 4 Li. 35-46). Applicant further argues that there are disadvantages of the GUNNARSON design as compared to his own. In order to overcome rejections based on prior art, however, applicant must point out the specific language of his claims which patentably distinguishes over the prior art. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims.

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V. Conclusion

1. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

- 2. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles N. Greenhut whose telephone number is (571) 272-1517. The examiner can normally be reached on 7:30am 4:00pm EST.
- 3. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen D. Lillis can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.
- 4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access

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to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free).

CG

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